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Page(s): 115 -120[\[Abstract\]](#) [\[PDF Full-Text \(780 KB\)\]](#) **IEEE CNF****2 An application of neural networks to emulation of aesthetic judgements***Jagielski, R.;*Artificial Neural Networks and Expert Systems, 1993. Proceedings., First New Zealand International Two-Stream Conference on, 24-26 Nov. 1993  
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Page(s): 534 -541[\[Abstract\]](#) [\[PDF Full-Text \(548 KB\)\]](#) **IEEE CNF****4 Using neural networks for undithering***Sundarasaradula, J.; Millar, J.;*Neural Networks, 1995. Proceedings., IEEE International Conference on, Volume: 4, 27 Nov.-1 Dec. 1995  
Page(s): 1892 -1897 vol.4[\[Abstract\]](#) [\[PDF Full-Text \(656 KB\)\]](#) **IEEE CNF****5 Graph layout using a genetic algorithm***Barreto, A.M.S.; Barbosa, H.J.C.;*Neural Networks, 2000. Proceedings. Sixth Brazilian Symposium on, 22-25 Nov. 2000  
Page(s): 179 -184[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) **IEEE CNF**

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**7 Shortest path segmentation: a method for training a neural network to recognize character strings**

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**10 Using neural network classifier in post-processing system for handwritten Chinese character recognition**

Ruifeng Xu; Yeung, D.S.; Xizhao Wang;  
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**14 Head and stem extraction from printed music scores using a neural network approach**

*Miyao, H.; Nakano, Y.;*

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*Alwis, S.; Austin, J.;*

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*Bezdek, J.C.; Kerr, D.;*

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*Hu, Y.; Ashenayi, K.; Veltri, R.; O'Dowd, G.; Miller, G.; Hurst, R.; Bonner, R.;*

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**20 Fingerprint identification and recognition using backpropagation neural network**

*Jin, A.L.H.; Chekima, A.; Dargham, J.A.; Liao Chung Fan;*

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**21 Concurrent self-organizing maps for pattern classification**

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**24 Iris recognition using self-organizing neural network***Lye Wil Liam; Chekima, A.; Liao Chung Fan; Dargham, J.A.;*

Research and Development, 2002. SCORed 2002. Student Conference on , 16-17 July 2002

Page(s): 169 -172

[\[Abstract\]](#) [\[PDF Full-Text \(344 KB\)\]](#) [IEEE CNF](#)

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**25 An application of neural net chips: handwritten digit recognition***Jackel, L.D.; Graf, H.P.; Hubbard, W.; Denker, J.S.; Henderson, D.; Guyon, I.;*

Neural Networks, 1988., IEEE International Conference on , 24-27 July 1988

Page(s): 107 -115 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(292 KB\)\]](#) [IEEE CNF](#)

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(((image and score)) and(neural &lt;near&gt; network)

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Neural Networks for Signal Processing X, 2000. Proceedings of the 2000 IEEE Signal Processing Society Workshop, Volume: 1, 11-13 Dec. 2000

Page(s): 318 -327 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE CNF****2 Searching image databases containing trademarks***Alwis, S.; Austin, J.;*

Neural Networks in Interactive Multimedia Systems (Ref. No. 1998/446), IEE Colloquium on, 22 Oct. 1998

Page(s): 2/1 -2/5

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) **IEEE CNF****3 A two-level model-based object recognition technique***Yip-San Wong; Choi, A.;*

Speech, Image Processing and Neural Networks, 1994. Proceedings, ISSIPNN '94., 1994 International Symposium on, 13-16 April 1994

Page(s): 319 -322 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) **IEEE CNF****4 A neural network approach for 3-D object recognition***Kawaguchi, T.; Setoguchi, T.;*

Circuits and Systems, 1994. ISCAS '94., 1994 IEEE International Symposium on, Volume: 6, 30 May-2 June 1994

Page(s): 315 -318 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) **IEEE CNF****5 Automatic music score recognition/play system based on decision based neural network***Hori, T.; Wada, S.; Howzan Tai; Kung, S.Y.;*

Multimedia Signal Processing, 1999 IEEE 3rd Workshop on, 13-15 Sept. 1999

Page(s): 183 -184

[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) **IEEE CNF****6 Determination of meat quality by image processing and neural network techniques***Shiranita, K.; Hayashi, K.; Otsubo, A.; Miyajima, T.; Takiyama, R.;*

Fuzzy Systems, 2000. FUZZ IEEE 2000. The Ninth IEEE International Conference on, Volume: 2, 7-10 May 2000

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**7 Extracting information-dense vectors from images for neural network classifiers**

*Malyj, W.; Mannion, D.P.; Hughes, S.S.; Smith, R.E.; Horowitz, J.; Hughes, J.P.;*  
Neural Networks, 1991., IJCNN-91-Seattle International Joint Conference on ,  
Volume: ii , 8-14 July 1991  
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**8 Training edge detecting fuzzy neural networks with model-based examples**

*Bezdek, J.C.; Kerr, D.;*  
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Proceedings of the Third IEEE Conference on , 26-29 June 1994  
Page(s): 894 -901 vol.2

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**9 Using neural network classifier in post-processing system for handwritten Chinese character recognition**

*Ruifeng Xu; Yeung, D.S.; Xizhao Wang;*  
Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Volume:  
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*de Figueiredo, R.J.P.;*  
Neural Networks, 1990., 1990 IJCNN International Joint Conference on , 17-21  
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**11 Shortest path segmentation: a method for training a neural network to recognize character strings**

*Burges, C.J.C.; Matan, O.; Le Cun, Y.; Denker, J.S.; Jackel, L.D.; Stenard, C.E.;*  
*Nohl, C.R.; Ben, J.I.;*  
Neural Networks, 1992. IJCNN., International Joint Conference on , Volume: 3 ,  
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**12 Improved scoring and semi-automatic screening of human peripheral blood chromosomes by CNN visual system**

*Tompa, A.; Sziranyi, T.; Nemes, L.; Rekeczky, Cs.; Roska, T.;*  
Cellular Neural Networks and their Applications, 1996. CNNA-96. Proceedings.,  
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**13 PicSOM: self-organizing maps for content-based image retrieval**

*Laaksonen, J.; Koskela, M.; Oja, E.;*  
Neural Networks, 1999. IJCNN '99. International Joint Conference on , Volume: 4  
, 10-16 July 1999  
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**14 Face recognition using a fuzzy-Gaussian neural network***Neagoe, V.-E.; Iatan, I.-F.;*

Cognitive Informatics, 2002. Proceedings. First IEEE International Conference on , 19-20 Aug. 2002

Page(s): 361 -368

[\[Abstract\]](#) [\[PDF Full-Text \(1234 KB\)\]](#) **IEEE CNF****15 Concurrent self-organizing maps for pattern classification***Neagoe, V.-E.; Ropot, A.-D.;*

Cognitive Informatics, 2002. Proceedings. First IEEE International Conference on , 19-20 Aug. 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(1370 KB\)\]](#) **IEEE CNF****16 Content-based image retrieval for digital mammography***El-Naqa, I.; Yongyi Yang; Galatsanos, N.P.; Wernick, M.N.;*

Image Processing. 2002. Proceedings. 2002 International Conference on , Volume: 3 , 24-28 June 2002

Page(s): III-141 -III-144 vol.3

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Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 27 Issue: 1 , Feb. 1997

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[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) **IEEE JNL****18 Coding and comparison of DAG's as a novel neural structure with applications to on-line handwriting recognition***I-Jong Lin; Sun-Yuan Kung;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 45 Issue: 11 , Nov. 1997

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[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) **IEEE JNL****19 Neural classification of abnormal tissue in digital mammography using statistical features of the texture***Christoyianni, I.; Dermatas, E.; Kokkinakis, G.;*

Electronics, Circuits and Systems, 1999. Proceedings of ICECS '99. The 6th IEEE International Conference on , Volume: 1 , 5-8 Sept. 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) **IEEE CNF****20 An application of neural net chips: handwritten digit recognition***Jackel, L.D.; Graf, H.P.; Hubbard, W.; Denker, J.S.; Henderson, D.; Guyon, I.;*

Neural Networks, 1988., IEEE International Conference on , 24-27 July 1988

Page(s): 107 -115 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(292 KB\)\]](#) **IEEE CNF****21 Information processing models for automatic sleep scoring***Principe, J.C.; Chang, T.G.; Gala, S.K.; Tome, A.P.;*

Engineering in Medicine and Biology Society, 1989. Images of the Twenty-First Century. Proceedings of the Annual International Conference of the IEEE

Engineering in , 9-12 Nov. 1989

Page(s): 1804 -1805 vol.6

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**22 Word-level training of a handwritten word recognizer based on convolutional neural networks**

*Le Cun, Y.; Bengio, Y.;*

Pattern Recognition, 1994. Vol. 2 - Conference B: Computer Vision & Image Processing., Proceedings of the 12th IAPR International. Conference on , Volume: 2 , 9-13 Oct. 1994

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**23 A comparison of neural network and fuzzy c-means methods in bladder cancer cell classification**

*Hu, Y.; Ashenayi, K.; Veltri, R.; O'Dowd, G.; Miller, G.; Hurst, R.; Bonner, R.;*

Neural Networks, 1994. IEEE World Congress on Computational Intelligence., 1994 IEEE International Conference on , Volume: 6 , 27 June-2 July 1994

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**24 Applying N-best keyword search to continuous speech recognition for telecommunication-based applications**

*Ming-Whei Feng;*

Speech, Image Processing and Neural Networks, 1994. Proceedings, ISSIPNN '94., 1994 International Symposium on , 13-16 April 1994

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**25 Robust handwritten word recognition with fuzzy sets**

*Gader, P.; Jung-Hsien Chiang;*

Proceedings of ISUMA - NAFIPS '95 The Third International Symposium on Uncertainty Modeling and Analysis and Annual Conference of the North American Fuzzy Information Processing Society , 17-20 Sept. 1995

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### 1 [Machine learning in automated text categorization](#)

Fabrizio Sebastiani

 March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

 Full text available:  pdf(524.41 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

**Keywords:** Machine learning, text categorization, text classification

### 2 [Data clustering: a review](#)

A. K. Jain, M. N. Murty, P. J. Flynn

 September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

 Full text available:  pdf(636.41 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

**Keywords:** cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

### 3 [Dependency networks for inference, collaborative filtering, and data visualization](#)

David Heckerman, David Maxwell Chickering, Christopher Meek, Robert Rounthwaite, Carl Kadie

 September 2001 **The Journal of Machine Learning Research**, Volume 1

 Full text available:  pdf(337.07 KB)

 Additional Information: [full citation](#), [abstract](#)

We describe a graphical model for probabilistic relationships--an alternative to the Bayesian network--called a dependency network. The graph of a dependency network, unlike a Bayesian network, is potentially cyclic. The probability component of a dependency network, like a Bayesian network, is a set of conditional distributions, one for each node given its parents. We identify several basic properties of this representation and describe a computationally efficient procedure for learning the gra ...

### 4 [What have we learnt from using real parallel machines to solve real problems?](#)

G. C. Fox

 January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

 Full text available:  pdf(4.08 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

### 5 [A survey on wavelet applications in data mining](#)

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogiwara

 December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

 Full text available:  pdf(330.06 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

### 6 [Method combination for document filtering](#)

David A. Hull, Jan O. Pedersen, Hinrich Schütze

 August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available:  pdf(1.00 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Evaluating strategies and systems for content based indexing of person images on the Web

Yuksel Alp Aslandogan, Clement T. Yu

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: [pdf\(944.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Content based indexing of multimedia has always been a challenging task. The enormity and the diversity of the multimedia content on the web adds another dimension to this challenge. In this paper, we examine ways of combining visual and textual information for content based indexing of multimedia on the web. In particular, we examine different methods of combining evidences due to face detection, Text/HTML analysis and face recognition for identifying person images. We provide experimental e ...

**Keywords:** Dempster-Shafer theory, content based image retrieval, evidence combination, face detection and recognition, web image retrieval

8 Evolving intelligent text-based agents

Edmund S. Yu, Ping C. Koo, Elizabeth D. Liddy

June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: [pdf\(1.14 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** evolution of agents, information agents, learning and adaptation, multi-agent teams

9 Open-vocabulary speech indexing for voice and video mail retrieval

M. G. Brown, J. T. Foote, G. J. F. Jones, K. Spärck Jones, S. J. Young

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available: [pdf\(1.82 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** audio indexing, browsing, content-based retrieval, information retrieval, speech recognition, word spotting

10 A comparison of classifiers and document representations for the routing problem

Hinrich Schütze, David A. Hull, Jan O. Pedersen

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: [pdf\(1.16 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 MEGA---the maximizing expected generalization algorithm for learning complex query concepts

Edward Chang, Beita Li

October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Full text available: [pdf\(1.34 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Specifying exact query concepts has become increasingly challenging to end-users. This is because many query concepts (e.g., those for looking up a multimedia object) can be hard to articulate, and articulation can be subjective. In this study, we propose a query-concept learner that learns query criteria through an intelligent sampling process. Our concept learner aims to fulfill two primary design objectives: (1) it has to be expressive in order to model most practical query concepts and (2) i ...

**Keywords:** Active learning, data mining, query concept, relevance feedback

12 Synthetic aperture radar image formation with neural networks

Ted Frison, S. Walt McCandless, Robert Renze

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: [pdf\(1.39 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

13 Efficient identification of Web communities

Gary William Flake, Steve Lawrence, C. Lee Giles

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: [pdf\(273.37 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Poster papers: Mining complex models from arbitrarily large databases in constant time

Geoff Hulten, Pedro Domingos

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: [pdf\(853.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we propose a scaling-up method that is applicable to essentially any induction algorithm based on discrete search. The result of applying the method to an algorithm is that its running time becomes independent of the size of the database, while the decisions made are essentially identical to those that would be made given infinite data. The method works within pre-specified memory limits and, as long as the data is iid, only requires accessing it sequentially. It gives anytime resu ...

**Keywords:** Bayesian networks, Hoeffding bounds, discrete search, scalable learning algorithms, subsampling

15 [Probabilistic segmentation of volume data for visualization using SOM-PNN classifier](#)

Feng Ma, Wenping Wang, Wai Wan Tsang, Zesheng Tang, Shaowei Xia, Xin Tong

October 1998 **Proceedings of the 1998 IEEE symposium on Volume visualization**

Full text available: [pdf\(871.16 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** 3D volume rendering, PNN, SOM, SOM-PNN classifier, medical image segmentation, multiscale, wavelet transform

16 [Electronic commerce: a half-empty glass?](#)

Sasa Dekleva

June 2000 **Communications of the AIS**

Full text available: [pdf\(343.49 KB\)](#)

Additional Information: [full citation](#), [references](#)

17 [Tree induction vs. logistic regression: a learning-curve analysis](#)

Claudia Perlich, Foster Provost, Jeffrey S. Simonoff

September 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: [pdf\(263.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

18 [Computational strategies for object recognition](#)

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Full text available: [pdf\(6.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

**Keywords:** image understanding, model-based vision, object recognition

19 [Taking steps: the influence of a walking technique on presence in virtual reality](#)

Mel Slater, Martin Usoh, Anthony Steed

September 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 3

Full text available: [pdf\(1.85 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents an interactive technique for moving through an immersive virtual environment (or "virtual reality"). The technique is suitable for applications where locomotion is restricted to ground level. The technique is derived from the idea that presence in virtual environments may be enhanced the stronger the match between proprioceptive information from human body movements and sensory feedback from the computer-generated displays. The technique is an attempt to si ...

**Keywords:** immersion, locomotion, navigation, neural networks, presence, virtual environments, virtual reality

20 [Cluster ensembles --- a knowledge reuse framework for combining multiple partitions](#)

Alexander Strehl, Joydeep Ghosh

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: [pdf\(842.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces the problem of combining multiple partitionings of a set of objects into a single consolidated clustering *without* accessing the features or algorithms that determined these partitionings. We first identify several application scenarios for the resultant 'knowledge reuse' framework that we call *cluster ensembles*. The cluster ensemble problem is then formalized as a combinatorial optimization problem in terms of shared mutual information. In addition to a direct ...

**Keywords:** cluster analysis, clustering, consensus functions, ensemble, knowledge reuse, multi-learner systems, mutual information, partitioning, unsupervised learning


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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Face recognition: A literature survey](#)

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

**Keywords:** Face recognition, person identification**2** [Session 6: student best paper contest: A utility framework for the automatic generation of audio-visual skims](#)

Hari Sundaram, Lexing Xie, Shih-Fu Chang

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(487.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we present a novel algorithm for generating audio-visual skims from computable scenes. Skims are useful for browsing digital libraries, and for on-demand summaries in set-top boxes. A computable scene is a chunk of data that exhibits consistencies with respect to chromaticity, lighting and sound. There are three key aspects to our approach: (a) visual complexity and grammar, (b) robust audio segmentation and (c) an utility model for skim generation. We define a measure of visual c ...

**3** [Context-sensitive learning methods for text categorization](#)

William W. Cohen, Yoram Singer

April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2

Full text available: pdf(256.75 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two recently implemented machine-learning algorithms, RIPPER and sleeping-experts for phrases, are evaluated on a number of large text categorization problems. These algorithms both construct classifiers that allow the "context" of a word  $w$  to affect how (or even whether) the presence or absence of  $w$  will contribute to a classification. However, RIPPER and sleeping-experts differ radically in many other respects: ...

**Keywords:** context-sensitive models, mistake-driven algorithms, on-line learning, rule learning, text categorization**4** [Context-sensitive learning methods for text categorization](#)

William W. Cohen, Yoram Singer

August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(992.08 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**5** Posters: Popular music retrieval by detecting mood

Yazhong Feng, Yueting Zhuang, Yunhe Pan

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(132.64 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**6** Web Site Analysis: Statistical profiles of highly-rated web sites

Melody Y. Ivory, Marti A. Hearst

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**Full text available: [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We are creating an interactive tool to help non-professional web site builders create high quality designs. We have previously reported that quantitative measures of web page structure can predict whether a site will be highly or poorly rated by experts, with accuracies ranging from 67--80%. In this paper we extend that work in several ways. First, we compute a much larger set of measures (157 versus 11), over a much larger collection of pages (5300 vs. 1900), achieving much higher overall accur...

**Keywords:** World Wide Web, automated usability evaluation, empirical studies, web site design

**7** Poster papers: Transforming classifier scores into accurate multiclass probability estimates

Bianca Zadrozny, Charles Elkan

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**Full text available: [pdf\(690.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Class membership probability estimates are important for many applications of data mining in which classification outputs are combined with other sources of information for decision-making, such as example-dependent misclassification costs, the outputs of other classifiers, or domain knowledge. Previous calibration methods apply only to two-class problems. Here, we show how to obtain accurate probability estimates for multiclass problems by combining calibrated binary probability estimates. We a ...

**8** Poster session: Study of category score algorithms for k-NN classifier

Huaizhong KOU, Georges Gardarin

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(132.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We analyze category score algorithms for k-NN classifier found in the literature, including majority voting algorithm (**MVA**), simple sum algorithm (**SSA**). **MVA** and **SSA** are two mainly used algorithms to estimate score for candidate categories in k-NN classifier systems. Based on the hypothesis that utilization of internal relation between documents and categories could improve system performance, two new weighting score models: concept-based weighting (**CBW**) score ...

**Keywords:** category score, document categorization, k-NN

**9** Combining classifiers in text categorization

Leah S. Larkey, W. Bruce Croft

August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**10** Text categorization: Using asymmetric distributions to improve text classifier probability estimates

Paul N. Bennett

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(281.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Text classifiers that give probability estimates are more readily applicable in a variety of scenarios. For example, rather than choosing one set decision threshold, they can be used in a Bayesian risk model to issue a run-time decision which minimizes a user-specified cost function dynamically chosen at prediction time. However, the quality of the probability estimates is crucial. We review a variety of standard approaches to converting scores (and poor probability estimates) from text classifi ...

**Keywords:** active learning, classifier combination, cost-sensitive learning, text classification

#### 11 Clustering: Probabilistic combination of text classifiers using reliability indicators: models and results

Paul N. Bennett, Susan T. Dumais, Eric Horvitz

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(126.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The intuition that different text classifiers behave in qualitatively different ways has long motivated attempts to build a better metaclassifier via some combination of classifiers. We introduce a probabilistic method for combining classifiers that considers the context-sensitive reliabilities of contributing classifiers. The method harnesses *reliability indicators*---variables that provide a valuable signal about the performance of classifiers in different situations. We provide backgrou ...

**Keywords:** classifier combination, metaclassifiers, reliability indicators, text classification

#### 12 Scoring two-species local alignments to try to statistically separate neutrally evolving from selected DNA segments

Krishna M. Roskin, Mark Diekhans, David Haussler

April 2003 **Proceedings of the seventh annual international conference on Computational molecular biology**

Full text available:  [pdf\(220.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We construct several score functions for use in locating unusually conserved regions in a genome-wide search of aligned DNA from two species. We test these functions on regions of the human genome aligned to the mouse genome. These score functions are derived from properties of neutrally evolving sites on the mouse and human genome, and can be adjusted to the local background rate of conservation. The aim of these functions is to try to identify regions of the human genome that are conserved by ...

**Keywords:** CpG effect, ancestral repeat, comparative genomics, context-dependent base substitutions, dinucleotide dependence, evolutionary models, fraction of human genome under selection, mouse-human alignments, mutual information, neutral evolution

#### 13 Link Analysis: Web page scoring systems for horizontal and vertical search

Michelangelo Diligenti, Marco Gori, Marco Maggini

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available:  [pdf\(243.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Page ranking is a fundamental step towards the construction of effective search engines for both generic (*horizontal*) and focused (*vertical*) search. Ranking schemes for horizontal search like the PageRank algorithm used by Google operate on the topology of the graph, regardless of the page content. On the other hand, the recent development of vertical portals (*vortals*) makes it useful to adopt scoring systems focussed on the topic and taking the page content into account. In ...

**Keywords:** Focused PageRank, HITS, PageRank, random walks, web page scoring systems

#### 14 Papers: Expressive user interfaces: Aesthetic information collages: generating decorative displays that contain information

James Fogarty, Jodi Forlizzi, Scott E. Hudson

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Normally, the primary purpose of an information display is to convey information. If information displays can be aesthetically interesting, that might be an added bonus. This paper considers an experiment in reversing this imperative. It describes the *Kandinsky* system which is designed to create displays which are first aesthetically interesting, and then as an added bonus, able to convey information. The Kandinsky system works on the basis of aesthetic properties specified by an artist ( ...

**Keywords:** Visual design, aesthetics in computational objects, ambient information displays in decorative objects, display generation, optimization, simulated annealing

#### 15 Text Extraction and Summarization: Combining multiple classifiers for text categorization

Khalid Al-Kofahi, Alex Tyrrell, Arun Vachher, Tim Travers, Peter Jackson

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available:  pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A major problem facing online information services is how to index and supplement large document collections with respect to a rich set of categories. We focus upon the routing of case law summaries to various secondary law volumes in which they should be cited. Given the large number (> 13,000) of closely related categories, this is a challenging task that is unlikely to succumb to a single algorithmic solution. Our fully implemented and recently deployed system shows that a superior classifica ...

**Keywords:** document classification, multi-classifier

#### 16 Conceptual learning and classifier systems with long-term memory

Hayong Harry Zhou

April 1999 **Proceedings of the 19th annual conference on Computer Science**

Full text available:  pdf(979.12 KB) Additional Information: [full citation](#), [references](#)

#### 17 Automatic essay grading using text categorization techniques

Leah S. Larkey


August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  pdf(793.80 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 18 Learning and making decisions when costs and probabilities are both unknown

Bianca Zadrozny, Charles Elkan

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**


Full text available:  pdf(920.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In many data mining domains, misclassification costs are different for different examples, in the same way that class membership probabilities are example-dependent. In these domains, both costs and probabilities are unknown for test examples, so both cost estimators and probability estimators must be learned. After discussing how to make optimal decisions given cost and probability estimates, we present decision tree and naive Bayesian learning methods for obtaining well-calibrated probability ...

#### 19 Industrial/government track: Information awareness: a prospective technical assessment

David Jensen, Matthew Rattigan, Hannah Blau

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**


Full text available:  pdf(987.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent proposals to apply data mining systems to problems in law enforcement, national security, and fraud detection have attracted both media attention and technical critiques of their expected accuracy and impact on privacy. Unfortunately, the majority of technical critiques have been based on simplistic assumptions about data, classifiers, inference procedures, and the overall architecture of such systems. We consider these critiques in detail, and we construct a simulation model that more cl ...

**Keywords:** TIA, collective classification, information awareness, iterative classification, privacy, ranking classifiers, relational data mining, social network analysis, technology assessment

**20 Modeling score distributions for combining the outputs of search engines**

R. Manmatha, T. Rath, F. Feng

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available:  [pdf\(236.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper the score distributions of a number of text search engines are modeled. It is shown empirically that the score distributions on a per query basis may be fitted using an exponential distribution for the set of non-relevant documents and a normal distribution for the set of relevant documents. Experiments show that this model fits TREC-3 and TREC-4 data for not only probabilistic search engines like INQUERY but also vector space search engines like SMART for English. We have als ...

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**1 Application of the recurrent neural network to the problem of language acquisition**

Ryotaro Kamimura

 May 1991 **Proceedings of the conference on Analysis of neural network applications**

 Full text available: [pdf\(864.25 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
**2 Approximate Match of Rules Using Backpropagation Neural Networks**

Boonserm Kijsirikul, Sukree Sinthupinyo, Kongsak Chongkasemwongse

 September 2001 **Machine Learning**, Volume 44 Issue 3

 Full text available: [Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents a method for approximate match of first-order rules with unseen data. The method is useful especially in case of a multi-class problem or a noisy domain where unseen data are often not covered by the rules. Our method employs the Backpropagation Neural Network for the approximation. To build the network, we propose a technique for generating features from the rules to be used as inputs to the network. Our method has been evaluated on four domains of first-order learning pr ...

**Keywords:** approximate match, backpropagation neural networks, feature generation, inductive logic programming

**3 Technique for automatically correcting words in text**

Karen Kukich

 December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

 Full text available: [pdf\(6.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

**Keywords:** n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

**4 Data mining of multidimensional remotely sensed images**

Robert F. Crompt, William J. Campbell

 December 1993 **Proceedings of the second international conference on Information and knowledge management**

 Full text available: [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
**5 A Review of Statistical Language Processing Techniques**

John McMahon, F. Jack Smith

 October 1998 **Artificial Intelligence Review**, Volume 12 Issue 5

 Full text available: [Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present a review of some recently developed techniques in the field of natural language processing. This area has witnessed a confluence of approaches which are inspired by theories from linguistics and those which are inspired by theories from information theory: statistical language models are becoming more linguistically sophisticated and the models of language used by linguists are incorporating stochastic techniques to help resolve ambiguities. We include a discussion about the ...

**Keywords:** n-gram models, natural language processing, probability, statistics

**6 Automatic combination of multiple ranked retrieval systems**

Brian T. Bartell, Garrison W. Cottrell, Richard K. Belew

 August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(834.64 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Learning-based Intrasentence Segmentation for Efficient Translation of Long Sentences

Sung-Dong Kim, Byoung-Tak Zhang, Yung Taek Kim  
September 2001 **Machine Translation**, Volume 16 Issue 3

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

Long-sentence analysis has been a critical problem in machine translation because of its high complexity. Intrasentence segmentation has been proposed as a method for reducing parsing complexity. This paper presents a two-step segmentation method: (1) identifying potential segmentation positions in a sentence and (2) selecting an actual segmentation position amongst them. We have attempted to apply machine learning techniques to the segmentation task: ``concept learning'' and ``genetic learn ...

**Keywords:** concept learning, genetic algorithm, intrasentence segmentation, parsing, segmentation-appropriateness function, version space

8 Metric-Based Methods for Adaptive Model Selection and Regularization

Dale Schuurmans, Finnegan Southey  
September 2002 **Machine Learning**, Volume 48 Issue 1-3

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

We present a general approach to model selection and regularization that exploits *unlabeled* data to adaptively control hypothesis complexity in supervised learning tasks. The idea is to impose a metric structure on hypotheses by determining the discrepancy between their predictions across the distribution of unlabeled data. We show how this metric can be used to detect untrustworthy training error estimates, and devise novel model selection strategies that exhibit theoretical guarantee ...

**Keywords:** model selection, regularization, unlabeled examples

9 GSM Mobile Station Location Using Reference Stations and Artificial Neural Networks

Zoran Salcic  
December 2001 **Wireless Personal Communications: An International Journal**, Volume 19 Issue 3


Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

In this paper we present a novel approach to the automatic GSM mobile station location. The approach is based on measurement of radio signal strengths from a number of the neighboring base stations (antennas) and estimation of the mobile station position using trained artificial neural network (ANN) models. First, we present an improved version of our previous positioning back propagation (BP) ANN multi-level perceptron (MLP) model that further improves positioning accuracy. Then, ...

**Keywords:** GSM, artificial neural network, positioning

10 Maximizing Theory Accuracy Through Selective Reinterpretation

Shlomo Argamon-Engelson, Moshe Koppel, Hillel Walters  
November 2000 **Machine Learning**, Volume 41 Issue 2

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

Existing methods for exploiting flawed domain theories depend on the use of a sufficiently large set of training examples for diagnosing and repairing flaws in the theory. In this paper, we offer a method of theory reinterpretation that makes only marginal use of training examples. The idea is as follows: Often a small number of flaws in a theory can completely destroy the theory's classification accuracy. Yet it is clear that valuable information is available even from such flawed theories. ...

**Keywords:** approximate reasoning, flawed domain theories, logical theories, machine learning, probabilistic theories, theory revision

11 Unsupervised Learning of Word Segmentation Rules with Genetic Algorithms and Inductive Logic Programming

Dimitar Kazakov, Suresh Manandhar  
April 2001 **Machine Learning**, Volume 43 Issue 1-2

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

This article presents a combination of unsupervised and supervised learning techniques for the generation of word segmentation rules from a raw list of words. First, a language bias for word segmentation is introduced and a simple genetic algorithm is used in the search for a segmentation that corresponds to the best bias value. In the second phase, the words segmented by the genetic algorithm are used as an input for the first order decision list learner CLOG. The result is a set of first or ...

**Keywords:** inductive logic programming, natural language, unsupervised machine learning, word segmentation

12 A framework for specifying explicit bias for revision of approximate information extraction rules

Ronen Feldman, Yair Liberson, Binyamin Rosenfeld, Jonathan Schler, Jonathan Stoppi

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  [pdf\(173.48 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** information extraction, text mining, theory revision, user guided revision

13 Using the cosine measure in a neural network for document retrieval

Ross Wilkinson, Philip Hingston

September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**


Full text available:  [pdf\(701.82 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Decomposing Bayesian networks: triangulation of the moral graph with genetic algorithms

Pedro Larrañaga, Cindy M. H. Kuijpers, Mikel Poza, Roberto H. Murga

January 1997 **Statistics and Computing**, Volume 7 Issue 1

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#)


In this paper we consider the optimal decomposition of Bayesian networks. More concretely, we examine empirically the applicability of genetic algorithms to the problem of the triangulation of moral graphs. This problem constitutes the only difficult step in the evidence propagation algorithm of Lauritzen and Spiegelhalter (1988) and is known to be NP-hard (Wen, 1991). We carry out experiments with distinct crossover and mutation operators and with different population sizes, mutation rates a ...

**Keywords:** Bayesian networks, NP-hard problems, genetic algorithms, graph triangulation, moral graph, optimal decomposition, statistical analysis

15 Summarizing Similarities and Differences Among Related Documents

Inderjeet Mani, Eric Bloedorn

May 1999 **Information Retrieval**, Volume 1 Issue 1-2

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


In many modern information retrieval applications, a common problem which arises is the existence of multiple documents covering similar information, as in the case of multiple news stories about an event or a sequence of events. A particular challenge for text summarization is to be able to summarize the similarities and differences in information content among these documents. The approach described here exploits the results of recent progress in information extraction ...

**Keywords:** information retrieval, natural language processing, text summarization

16 A network approach to probabilistic information retrieval

K. L. Kwok

July 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 3

Full text available:  [pdf\(1.88 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


In this article we show how probabilistic information retrieval based on document components may be implemented as a feedforward (feedbackward) artificial neural network. The network supports adaptation of connection weights as well as the growing of new edges between queries and terms based on user relevance feedback data for training, and it reflects query modification and expansion in information retrieval. A learning rule is applied that can also be viewed as supporting sequential learn ...

**Keywords:** artificial neural networks, document-focused and query-focused relevance feedback, indexing and retrieval, item self-learning, learning, probabilistic indexing, probabilistic retrieval, query expansion, training

17 SYMCON—A Hybrid Symbolic/Connectionist System for Word Sense Disambiguation

Xinyu Wu, Michael Mctear, Piyush Ojha

January 1997 **Applied Intelligence**, Volume 7 Issue 1

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#)


Connectionist methods and knowledge-based techniques are two largely complementary approaches to natural language processing (NLP). However, they both have some potential problems which preclude their being a general purpose processing method. Research reveals that a hybrid processing approach that combines connectionist with symbolic techniques may be able to use the strengths of one processing paradigm to address the weakness of the other one. Hence, a system that effectively co ...

**Keywords:** connectionist system, hybrid system, knowledge-based system, microfeature, natural language processing, word sense disambiguation

18 [DIAGRAM: a grammar for dialogues](#)

Jane J. Robinson

January 1982 **Communications of the ACM**, Volume 25 Issue 1

Full text available:  [pdf\(2.11 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An explanatory overview is given of DIAGRAM, a large and complex grammar used in an artificial intelligence system for interpreting English dialogue. DIAGRAM is an augmented phrase-structure grammar with rule procedures that allow phrases to inherit attributes from their constituents and to acquire attributes from the larger phrases in which they themselves are constituents. These attributes are used to set context-sensitive constraints on the acceptance of an analysis. Constraints can be i ...

**Keywords:** annotations, attribute inheritance, augmented rules, contextual constraints, dialogue, likelihoods, metarules, phrase-structure grammar, transformations

19 [A hybrid technique for accelerated simulation of ATM networks and network elements](#)

April 2001

**ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 11 Issue 2

Full text available:  [pdf\(158.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Conventional simulation of cell- or packet-switched networks involves the use of discrete event simulators that model each individual cell through the network, typically called cell-level simulation. Each cells arrival at, or departure from, a network element is represented by an event. However, statistical considerations are such that very large numbers of cells have to be simulated to guarantee the accuracy of the results. This has always caused very long simulation times, often amounting ...

**Keywords:** WANs, accelerated simulation, modeling, queueing analysis

20 [Constraints in Graph Drawing Algorithms](#)

Roberto Tamassia

April 1998 **Constraints**, Volume 3 Issue 1

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#)

Graphs are widely used for information visualization purposes, since they provide a natural and intuitive representation of complex abstract structures. The automatic generation of drawings of graphs has applications a variety of fields such as software engineering, database systems, and graphical user interfaces. In this paper, we survey algorithmic techniques for graph drawing that support the expression and satisfaction of user-defined constraints.

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(aesthetic and (score or value))

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Intelligent Control, 1990. Proceedings., 5th IEEE International Symposium on , 5-7 Sept. 1990

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[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) **IEEE CNF****2 A simulation aided solution to an MCDM problem***Szidarovszky, F.; Eskandari, A.;*

Simulation Conference Proceedings, 1999. Winter , Volume: 1 , 5-8 Dec. 1999

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Computer Animation, 2002. Proceedings of , 19-21 June 2002

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Selected Areas in Communications, IEEE Journal on , Volume: 9 Issue: 4 , May 1991

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OCEANS , Volume: 13 , Sep 1981

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Intelligent Control, 1990. Proceedings., 5th IEEE International Symposium on , 5-7 Sept. 1990

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[\[Abstract\]](#) [\[PDF Full-Text \(668 KB\)\]](#) [IEEE CNF](#)

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**7 Using neural networks for undithering**

*Sundarasaradula, J.; Millar, J.;*

Neural Networks, 1995. Proceedings., IEEE International Conference on , Volume: 4 , 27 Nov.-1 Dec. 1995

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**8 A framework of virtual design for product customization**

*Tseng, M.M.; Jianxin Jiao; Chuan-Jun Su;*

Emerging Technologies and Factory Automation Proceedings, 1997. ETFA '97., 1997 6th International Conference on , 9-12 Sept. 1997

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**9 The effects of graph layout**

*Purchase, H.C.;*

Computer Human Interaction Conference, 1998. Proceedings. 1998 Australasian , 30 Nov.-4 Dec. 1998

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**10 Analysis and visualization of properties of free-form surfaces**

*Watanabe, Y.; Saitoh, T.;*

Information Visualization, 1998. Proceedings. 1998 IEEE Conference on , 29-31 July 1998

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*Magenta, M.; Udow, M.;*

Information Visualization, 1998. Proceedings. 1998 IEEE Conference on , 29-31 July 1998

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*Perlovsky, L.I.;*

Intelligent Control/Intelligent Systems and Semiotics, 1999. Proceedings of the 1999 IEEE International Symposium on , 15-17 Sept. 1999

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**13 Customer premise antenna design for LMDS applications**

*Erwin, J.B.; McCoy, M.;*

Emerging Technologies Symposium: Broadband, Wireless Internet Access, 2000 IEEE , 10-11 April 2000

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**14 Fair triangle mesh generation with discrete elastica**

*Yoshizawa, S.; Belyaev, A.G.;*

Geometric Modeling and Processing, 2002. Proceedings , 10-12 July 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) [IEEE CNF](#)

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**15 Fuzzy game theory and Internet commerce: e-strategy and metarationality**

*Russell, S.; Lodwick, W.A.;*

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[www.informatik.uni-trier.de/~ley/db/indices/a-tree/t/Toyama:Kentaro.html](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/t/Toyama:Kentaro.html) - 7k - [Cached](#) - [Similar pages](#)

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... Tracking in a Metric Space - Toyama, Blake (2001) (Correct) (8 citations) Probabilistic Tracking in a Metric Space **Kentaro Toyama** Microsoft Research Redmond, WA ...  
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*Magenta, M.; Udow, M.;*

Information Visualization, 1998. Proceedings. 1998 IEEE Conference on  
, 29-31 July 1998  
Pages:224

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Reich, Y. 1993)A model of **aesthetic** judgment in design.Artificial Intelligence in  
or.eng.tau.ac.il:7777/esthetics3.ps.ZOn Birkhoff's Aesthetic Measure of Vases - Staudek (1999) (Correct)On Birkhoff's **Aesthetic** Measure of Vases Tom&aacute;cs Staude  
www.fi.muni.cz/informatics/reports/rep/./pdf/FIMU-RS-99-06.pdfAutomated Quantitative Analysis of Breast Cancer Biopsies - Schnorrenberg (Correct)  
diagnostic index (see also Table 1)50% of cells, **score 2**, are moderately stained, **score 2**  
=2 3 2 =4with the chance that a hormonal 1 The biopsy **image** is included here only for the  
convenience of thein this paper were obtained from a similar color **image**. cancer treatment might have no  
effect and the

www.cs.ucy.ac.cy/schnorrenberg/WWWRepository/ResRep2.ps.gz

A Practical Approach to Drawing Undirected Graphs - Tunkelang (1994) (Correct)  
(8 citations)which are optimal with respect to several **aesthetic** criteria is known to be NPhard, so all  
reports.adm.cs.cmu.edu/usr/anon/1994/CMU-CS-94-161.psQuantifying Beauty: An Information System for Evaluating.. - Sudweeks, Simoff (Correct)An Information System for Evaluating Universal **Aesthetics** Fay Sudweeks, Simeon J.  
Simoff

www.it.murdoch.edu.au/~sudweeks/publications/./papers/beauty.pdf

Integrated Product Design Methodology For Aesthetics.. - Fujita, Nakayama, al. (1999)  
(Correct)1999 Integrated Product Design Methodology For **Aesthetics**, Functions And Geometry  
With Featurebasedprogresses, since the activity relates to mental **image** of shapes rather than technological  
functions.phases and aspects first industrial designers draw **image** sketches to roughly define  
product

syd.meim.eng.osaka-u.ac.jp/papers/1999/08\_ICED99.ps

Image Thresholding by Indicator Kriging - Oh (1998) (Correct) (2 citations)(MH) method relies on the maximization of a **score** function which is parameterized by the

10/18/07

unknown

On Pattern Analysis And Machine Intelligence 1 **Image** Thresholding By Indicator Kriging Wonho Oh, W.

the problem of segmenting a digitized 2D or 3D **image** consisting of two univariate populations.

[ams.sunysb.edu/pub/papers/1998/susb98\\_02.ps.gz](http://ams.sunysb.edu/pub/papers/1998/susb98_02.ps.gz)

Developing A Methodology For Design For Aesthetics .. - van Breemen.. (Correct)

Developing A Methodology For Design For **Aesthetics** Based On Analogy Of Communication Ernest J. J.

[www.io.tudelft.nl/research/ica/publications/papers/asmeaest.ps.gz](http://www.io.tudelft.nl/research/ica/publications/papers/asmeaest.ps.gz)

Generation and Evaluation of Artworks - Penousal Machado Instituto (Correct)

characteristics include the capacity of making **aesthetic** judgments, which takes us to the origins of art

through the use of neural networks. The **images** are generated using a genetic algorithm, and

a genetic algorithm, and represented using Fractal **Image** Encoding. This type of methodology allows the

[www.cs.tu-berlin.de/~mki/EuroCog/papers/Machado/machado\\_OK.ps](http://www.cs.tu-berlin.de/~mki/EuroCog/papers/Machado/machado_OK.ps)

The Beauty of Simplicity - Karvonen (2000) (Correct)

or even usability is often discussion about **aesthetics**. First, we introduce some definitions of beauty

[www.tml.hut.fi/Research/TeSSA/Papers/Karvonen/CUU2000\\_Karvonen\\_K.pdf](http://www.tml.hut.fi/Research/TeSSA/Papers/Karvonen/CUU2000_Karvonen_K.pdf)

Grouping based Non-additive Verification - Amir, Lindenbaum (1998) (Correct)

(5 citations)

should form a 'good' group. Therefore, any **score** method may benefit substantially from using

[www.cs.technion.ac.il/~mic/PSdocs/verif.ps.Z](http://www.cs.technion.ac.il/~mic/PSdocs/verif.ps.Z)

A Multiagent Approach using A-Teams for Graph Drawing - Hugo Do Nascimento (2000) (Correct)

1) In general, a 'good' drawing exhibits some **aesthetic** criteria and/or satisfies some constraints in

implemented by a function that evaluates assigns a **score** to a drawing. In many cases, this **score** is taken

[ftp.cs.newcastle.edu.au/pub/techreports/tr2000-02.ps.Z](http://ftp.cs.newcastle.edu.au/pub/techreports/tr2000-02.ps.Z)

Statistical Significance of Local Alignments with Gaps.. - Vingron, Waterman (1995)

(Correct)

probability that an alignment achieves a certain **score** can be approximated by a computationally fast

[www.dkfz-heidelberg.de/tbi/services/publ/getpaper?braun1.ps](http://www.dkfz-heidelberg.de/tbi/services/publ/getpaper?braun1.ps)

Computing Aesthetics - Penousal Machado Amlcar (Correct)

Computing **Aesthetics** Penousal Machado 1 Amlcar Cardoso 2 1

the drawing that she/he likes more. The average **scores** in this test are 45.680 (for

professionals of  
on biological and cultural issues, namely on visual **image** processing. We present an  
implementation of this  
[www.dei.uc.pt/~machado/pdf/tad-sbia.pdf](http://www.dei.uc.pt/~machado/pdf/tad-sbia.pdf)

Automated Digital Image Analysis of Video Ice Crystal Data - Jane Niehues-Brooks  
(1997) (Correct)

Automated Digital **Image** Analysis of Video Ice Crystal Data \Lambda Jane  
paper presents a procedure for automating dig ital **image** analysis of cloud particle  
**images** recorded on  
dig ital **image** analysis of cloud particle **images** recorded on video tape using the  
Cloudscope. 1  
[www.cs.unr.edu/~fredh/papers/conf/adiaovicd/cata.ps](http://www.cs.unr.edu/~fredh/papers/conf/adiaovicd/cata.ps)

Image Parsing for Image Retrieval From Large Image Data Bases.. - Sinclair (Correct)

**Image** parsing for **image** retrieval from large **image** data  
**Image** parsing for **image** retrieval from large **image** data bases: from  
**Image** parsing for **image** retrieval from large **image** data bases: from coloured **image** to  
coloured  
<ftp.ori.co.uk/pub/docs/ORL/tr.97.4.ps.Z>

HyperCafe: Narrative and Aesthetic Properties of Hypervideo - Sawhney, Balcom, Smith  
(Correct) (7 citations)

HyperCafe: Narrative and **Aesthetic** Properties of Hypervideo Nitin `Nick'Sawhney  
hypertext presents users with several text or **image**based links simultaneously, and  
opportunities in  
by Apple's QuickTime VR interface for still **images**, yet navigation in hypervideo is  
complicated by  
[nitin.www.media.mit.edu/people/nitin/papers/HyperCafe\\_HT96.ps.gz](http://nitin.www.media.mit.edu/people/nitin/papers/HyperCafe_HT96.ps.gz)

CONSTRUCTION OF HIGH QUALITY CAD MODEL FROM ROUGH PHYSICAL .. -  
Department Of System (2000) (Correct)

[www.faim2000.isr.umd.edu/faim/export/28h8am-a.pdf](http://www.faim2000.isr.umd.edu/faim/export/28h8am-a.pdf)

A Framework for Drawing Planar Graphs with Curves and Polylines - Goodrich, Wagner  
(1998) (Correct) (2 citations)

Abstract We describe a uni ed framework of **aesthetic** criteria and complexity measures  
for drawing  
[www.mts.jhu.edu/~wagner/two\\_bend.ps](http://www.mts.jhu.edu/~wagner/two_bend.ps)

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The RUBATO Performance Workstation on NEXTSTEP - Mazzola, Zahorka (1994)  
(Correct)

In fact, performance and interpretation **aesthetics** as well as performance psychology are intrinsic and explicit transformation of the given **score** data into welldefined physical performance data.

geometry, one may consider the socalled inverse **image** of the Dfield. This is the C 1 performance field

[www.ifi.unizh.ch/groups/mml/musicmedia/papers/PostScript/ICMC94Proceedings.ps.gz](http://www.ifi.unizh.ch/groups/mml/musicmedia/papers/PostScript/ICMC94Proceedings.ps.gz)

Assessing Agreement Between Human and Machine Clusterings of.. - Squire, Pun (1997)  
(Correct) (6 citations)

Agreement Between Human and Machine Clusterings of **Image** Databases David McG. Squire Thierry Pun 1 2

in the organization and contentbased querying **image** databases. The usual hypothesis is that **image**

**image** databases. The usual hypothesis is that **image** similarity can be characterized by lowlevel

[cuiwww.unige.ch/~vision/Publications/postscript/97/VGTR97.03\\_SquirePun.ps.gz](http://cuiwww.unige.ch/~vision/Publications/postscript/97/VGTR97.03_SquirePun.ps.gz)

Berdy Medical Systems 4909 Pearl East Circle, Suite 202.. - Ward Carnegie (Correct)

for correction for each word in which its mean **score** is significantly less than the phone's mean **score**

[www.colorado.edu/ling/f97/7800.dan/./kevin.ps](http://www.colorado.edu/ling/f97/7800.dan/./kevin.ps)

A New Aesthetic Design Workflow - Results from the European.. - Dankwort, Podehl (1998) (Correct)

A New **Aesthetic** Design Workflow -Results from the European

[rkk.mv.uni-kl.de/FIORES/publication/FIORES\\_ANewAestheticDesignWorkflow\\_Dagstuhl98](http://rkk.mv.uni-kl.de/FIORES/publication/FIORES_ANewAestheticDesignWorkflow_Dagstuhl98)

A Constraint-based Approach to Dynamic Colour Management for.. - MacIntyre (1991)  
(Correct) (2 citations)

A more desirable approach is to allow the **aesthetic** and functional properties of colours to be

[ftp.cs.columbia.edu/pub/bm/masters.ps.gz](http://ftp.cs.columbia.edu/pub/bm/masters.ps.gz)

Chaining Multiple-Alignment Fragments in Sub-Quadratic Time - Miller (1995) (Correct)  
(1 citation)

of a set of F precomputed fragments, an alignment **score** for each fragment, and a 'gap'penalty function

[www.cs.arizona.edu/people/gene/PAPERS/sparse.dp.ps](http://www.cs.arizona.edu/people/gene/PAPERS/sparse.dp.ps)

A Framework for Modeling Appearance Change in Image Sequences - Black, Fleet, Yacoob (1998) (Correct) (6 citations)

A Framework for Modeling Appearance Change in **Image** Sequences Michael J. Black  
 \Lambda David J. Fleet

fleet@qucis.queensu.ca yaser@cs.umd.edu Abstract **Image** `appearance' may change over time due to a recovering these `appearance changes' in an **image** sequence as a `mixture' of different causes.

[www.qucis.queensu.ca/home/fleet/research/Papers/iccv98-appear.ps.gz](http://www.qucis.queensu.ca/home/fleet/research/Papers/iccv98-appear.ps.gz)

Image Analysis Methods Based on Hierarchies of Graphs and.. - Nacken (1994) (Correct) (2 citations)

primitives is used to label each edge with a merge **score** which describes how well the merge of the two

**Image** Analysis Methods Based on Hierarchies of Graphs

Graphs and MultiScale Mathematical Morphology **Image** Analysis Methods Based on Hierarchies of Graphs

[www.cwi.nl/ftp/morphology/report/Nacken\\_thesis.ps.Z](http://www.cwi.nl/ftp/morphology/report/Nacken_thesis.ps.Z)

Image Morphing Using Deformable Surfaces - Lee, Chwa, Hahn, Shin (1994) (Correct) (3 citations)

**Image** Morphing Using Deformable Surfaces SeungYong Lee

University Abstract This paper presents a new **image** morphing technique using deformable surfaces.

and vertical displacements of points on an **image**. This paper also considers the control of [www.seas.gwu.edu/seas/eecs/Research/Graphics/papers/morph-ani.ps](http://www.seas.gwu.edu/seas/eecs/Research/Graphics/papers/morph-ani.ps)

Wiener Soccer And Its Generalization - Baryshnikov (1997) (Correct)

at the boundary points (as proposed in [KPY]) The **score** is then the number of windings of the trajectory

on D with elastic reflections at boundary as the **image** under f of the Brownian motion on S with

be reduced by a local change of coordinates in the **image** 4 Electronic Communications in Probability and

[feller.is.ocha.ac.jp/~ejpecp/EcpVol3/paper1.ps.Z](http://feller.is.ocha.ac.jp/~ejpecp/EcpVol3/paper1.ps.Z)

The Baldwin Effect in the Immune System: Learning by.. - Hightower, Forrest, al. (Correct) (4 citations)

1 1 1 1 11 1 111 1 1 Figure 1: Computing the match **score** between binary molecules. Our model of the immune

[ftp.cs.unm.edu/pub/forrest/baldwin.ps.gz](http://ftp.cs.unm.edu/pub/forrest/baldwin.ps.gz)

Modifications De Formes Complexes Complex Shape Modifications - Patrick Bosinco Grard (Correct)

geometry whether to fit local/global **aesthetic** requirements, or engineering constraints. A

[rkk.mv.uni-kl.de/FIORES/publication/FIORES\\_ComplexShapeModifications\\_IDMME98\\_Eng](http://rkk.mv.uni-kl.de/FIORES/publication/FIORES_ComplexShapeModifications_IDMME98_Eng)

Default Reasoning in A Bridge Design System - Hua, Faltings, Smith (1989) (Correct)  
 Reiter's default logic. A consulting system for **aesthetic** bridge design is being developed based on this  
[liaftp.epfl.ch/lia/Hua-89.ps](http://liaftp.epfl.ch/lia/Hua-89.ps)

Visual Music in a Visual Programming Language - Case (Correct)  
[cuisung.unige.ch/Visual/local/CollopyFuhrerJameson99.pdf](http://cuisung.unige.ch/Visual/local/CollopyFuhrerJameson99.pdf)

A study of Evolutionary Graph Drawing - Rosete-Suarez, Sebag.. (Correct)  
 nding a layout of a graph that satisfies a given **aesthetic** objective. This problem is very important for  
[www.lri.fr/~rosete/lri1228.ps.gz](http://www.lri.fr/~rosete/lri1228.ps.gz)

On the Aesthetics of Programming and Modeling: Part 1: Evolving.. - Fishwick (2000) (Correct)  
 On the **Aesthetics** of Programming and Modeling: Part 1: Evolving  
 2. Individual elements were taken from individual **images** and overlaid to create the FSM in Fig. 3(a)The  
 arcs can be fast and economic, whereas creating 2D **images** and architectural forms are more complex and  
[www.cise.ufl.edu/~fishwick/tr/00/paper1.pdf](http://www.cise.ufl.edu/~fishwick/tr/00/paper1.pdf)

Breeding Aesthetic Objects: Art and Artificial Evolution - Mitchell Whitelaw Faculty (1999) (Correct) (1 citation)  
 Breeding **Aesthetic** Objects: Art and Artificial Evolution Mitchell  
 software for the evolution of twodimensional **images** around 1991. Sims presented Genetic **Images**, an  
**images** around 1991. Sims presented Genetic **Images**, an artwork using this software, in 1993 at  
[www.spin.net.au/~mitchellw/breeding.pdf](http://www.spin.net.au/~mitchellw/breeding.pdf)

Parallel Computation of 2-D Continuous Wavelet Transforms - Misra (Correct)  
 Abstract An important step in **image** processing tasks is the identification of certain identification of certain desired attributes in an **image**. This is typically done by transforming the **image**  
**image**. This is typically done by transforming the **image** into a domain where the desired attributes or  
[kafanchan.mines.colorado.edu/pub/papers.dir/mcs9431.ps.Z](http://kafanchan.mines.colorado.edu/pub/papers.dir/mcs9431.ps.Z)

Genetic Algorithms for Scene Interpretation from.. - Prabhu, Buckles, Petry (1998) (Correct)  
 or the distance from a default solution. In **image** scene interpretation, the solution takes the form  
 set of labels corresponding to the components of an **image** and its fitness is difficult to conceptualize in  
 can be applied to a broad range of scenebased **image** analysis tasks. Keywords Genetic algorithms,  
[ftp.eecs.tulane.edu/pub/buckles/Papers/snet-ga-smc.ps](http://ftp.eecs.tulane.edu/pub/buckles/Papers/snet-ga-smc.ps)

De-Noising; Signal Extraction; Thresholding. - Cai, Hurvich, Tsai (Correct)  
California Davis, CA 95616 SUMMARY We consider two **score** tests for  
heteroscedasticity in the errors of a  
[math.smsu.edu/~cai/cht.ps](http://math.smsu.edu/~cai/cht.ps)

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161.142.8.254/ssra/paper21.ps

Using a Neural Network to Learn General Knowledge in a .. - Reategui, Campbell.. (1995)

(Correct) (1 citation)

Using a **Neural Network** to Learn General Knowledge in a

Using a **Neural Network** to Learn General Knowledge in a CaseBased

casebased system through the use of a neu ral **network**. We take advantage of the selfadapting nature

www.cs.ucl.ac.uk/staff/E.Reategui/publications/iccbr-95.ps

Constructive Theory Refinement in Knowledge Based Neural.. - Parekh, Honavar (1998)

(Correct) (1 citation)

Constructive Theory Refinement in Knowledge Based **Neural Networks** Rajesh Parekh &Vasant Honavar

Theory Refinement in Knowledge Based **Neural Networks** Rajesh Parekh &Vasant Honavar Artificial

Abstract-Knowledge based artificial **neural networks** of fer an approach for connectionist theory

www.cs.iastate.edu/~honavar/Papers/parekh-ijcnn98.ps

Interpretation of Neural Networks for Classification Tasks - Bernatzki, Eppler, Gemmeke

(Correct)

part of wavelet coefficients. After smoothing the **image** single line pieces are detected by segmentation

Interpretation of **Neural Networks** for Classification Tasks A. Bernatzki,

Interpretation of **Neural Networks** for Classification Tasks A. Bernatzki, W.

fuzzy.fzk.de/eppler/postscript/eufit.ps

Using Neural Networks for Descriptive Statistical Analysis of.. - Tirri (1999) (Correct)

use summarized information such as the factor **scores** instead of the primary variables.

Knowing the

Association (Chicago, IL, USA, March 1997) Using **Neural Networks** for Descriptive Statistical Analysis of

(Chicago, IL, USA, March 1997) Using **Neural Networks** for Descriptive Statistical Analysis of

www.cs.Helsinki.FI/research/cosco/Articles/sig.ps.gz

The Automated Identification of Tubercle Bacilli using.. - Veropoulos Campbell (Correct)

Automated Identification of Tubercle Bacilli using **Image** Processing and **Neural** Computing Techniques K.

of the 8th International Conference on Artificial **Neural Networks**, vol 2, pp 797802 Skvde, Sweden, 24

8th International Conference on Artificial **Neural Networks**, vol 2, pp 797802 Skvde, Sweden, 24 September

[lara.enm.bris.ac.uk/~cig/pubs/icann98.ps](http://lara.enm.bris.ac.uk/~cig/pubs/icann98.ps)

Efficient Indexing for Object Recognition Using Large.. - Stevens, Anderson.. (1997)

(Correct)

that are likely to match each window in an **image**. Results on actual LADAR range **images** show that

expensive. To reduce processing time, we use large **neural networks** to predict, or index, a small subset of

Indexing for Object Recognition Using Large **Networks** \Lambda Mark R. Stevens Charles W. Anderson J.

[www.cs.colostate.edu/~anderson/pubs/stevens-icnn97.ps.gz](http://www.cs.colostate.edu/~anderson/pubs/stevens-icnn97.ps.gz)

Improving Prediction of Protein Secondary Structure using.. - Riis, Krogh (1996)

(Correct) (6 citations)

that 72% of the database yields Q 3 =80% and 36% **scores** about Q 3 =90% Thus, for more than 36% of the

**neural networks**. In: **Neural Networks** for Speech and **Image** processing, Mammone, R. J.ed) London:

of Protein Secondary Structure using Structured **Neural Networks** and Multiple Sequence Alignments Sren

[www.cbs.dtu.dk/krogh/papers/2ndary1.ps.gz](http://www.cbs.dtu.dk/krogh/papers/2ndary1.ps.gz)

Mixture Models and the EM Algorithm for Object Recognition within.. - Utans (1993)

(Correct)

of the mixture coefficients. The parts in the input **image** are unlabelled, this problem can be stated as

minimizing an objective function that a recurrent **neural network** solves [11, 12, 5, 8, 22]Mjolsness [9,

an objective function that a recurrent **neural network** solves [11, 12, 5, 8, 22]Mjolsness [9, 10] has

[ftp.icsi.berkeley.edu/pub/techreports/1993/tr-93-004.ps.gz](http://ftp.icsi.berkeley.edu/pub/techreports/1993/tr-93-004.ps.gz)

Separating Formal Bounds from Practical Performance in Learning.. - Cohn (1992)

(Correct) (1 citation)

and testing methods :58 3.4 SingleImage Learning Experiments :

[www.ai.mit.edu/people/cohn/psyche/thesis.ps.Z](http://www.ai.mit.edu/people/cohn/psyche/thesis.ps.Z)

An Analysis of Noise in Recurrent Neural Networks.. - Jim, Giles, Horne (1996) (Correct)

(2 citations)

An Analysis of Noise in Recurrent **Neural Networks**: Convergence and Generalization \Lambda

An Analysis of Noise in Recurrent **Neural Networks**: Convergence and Generalization

\Lambda Kam Jim

interest in applying noise to feedforward **neural networks** in order to observe their effect on **network**[www.neci.nj.nec.com/homepages/giles/papers/UMD-CS-TR-3322.synaptic.noise.recurrent.1](http://www.neci.nj.nec.com/homepages/giles/papers/UMD-CS-TR-3322.synaptic.noise.recurrent.1)Adaptive Blind Separation of Speech Signals: Cocktail Party.. - Choi, CICHOCKI (1997)(Correct) (3 citations)of applications such as digital communication, **image** processing, array signal processing, sensoryspeech signals. We present two slightly different **neural networks**, i.e.a dynamic recurrent **network** and asignals. We present two slightly different **neural networks**, i.e.a dynamic recurrent **network** and a[www.open.brain.riken.go.jp/PAP/icassp97.ps.gz](http://www.open.brain.riken.go.jp/PAP/icassp97.ps.gz)Applying Neural Networks - Stader (1992) (Correct)data and processing sensory input like visual **images**. It has been suggested that **neural networks** canApplying **Neural Networks** Jussi Stader AIAI-IR-11 August 1992[www.aiai.ed.ac.uk/~jussi/pub/92-nnai.ps.gz](http://www.aiai.ed.ac.uk/~jussi/pub/92-nnai.ps.gz)On the Analysis of Pattern Sequences by Self-Organizing Maps - Kangas (1994)(Correct) (18 citations)for these operators is that some kind of a matching **score**, a response, can be computed for every operator: 58 3.7.3 **Image** Analysis by SelfOrganizing Maps :with the SelfOrganizing Map 43 iv 3.1 **Neural Networks** and Analysis of Pattern Sequences :[www.cis.hut.fi/~jari/papers/thesis94.ps.Z](http://www.cis.hut.fi/~jari/papers/thesis94.ps.Z)A Fuzzy-Neural Network Based on the Backpropagation Algorithm - Lippe Th (Correct)A FuzzyNeural **Network** Based on the Backpropagation AlgorithmA FuzzyNeural **Network** Based on the Backpropagation Algorithm W.M.

and FuzzyArithmetics 2 3 BackpropagationNetworks 3 4 Extension to FuzzyNetworks 5

4.1 Fuzzifying

[wwwmath.uni-muenster.de/math/inst/info/Institutsberichte/9510bericht.ps](http://wwwmath.uni-muenster.de/math/inst/info/Institutsberichte/9510bericht.ps)Telephone Speech Recognition using Neural Networks and Hidden.. - Yuk, Flanagan(1999) (Correct)does not necessarily mean maximizing the acoustic **score** of equation (2)The anomaly arises from theTelephone Speech Recognition using **Neural Networks** and Hidden Markov Models IEEETelephone Speech Recognition using **Neural Networks** and Hidden Markov Models IEEE International[www.caip.rutgers.edu/~yuk/papers/icassp99.yuk.ps](http://www.caip.rutgers.edu/~yuk/papers/icassp99.yuk.ps)A Knowledge Base for a Neural Guidance System - Krosley, Misra (Correct)

A Knowledge Base for a **Neural** Guidance System Ramon Krosley Manavendra Misra as an expert system implemented as a **neural network**. The use of a **neural** architecture, rather than the system, the knowledge base. Keywords: **Neural Networks**, Distributed Representations, Dynamic Link  
[kafanchan.mines.colorado.edu/pub/papers.dir/mcs9318.ps.Z](http://kafanchan.mines.colorado.edu/pub/papers.dir/mcs9318.ps.Z)

City Name Recognition Over The Telephone - Fanty, Schmid, Cole (1993) (Correct)  
(2 citations)

**network** that assigns 39 phonetic category **scores** to each 6 msec time frame. The input to the Oregon 97006 -1999 Usa Abstract We Present A **Neuralnetwork**based Speech Recognition System For 97006 -1999 Usa Abstract We Present A **Neuralnetwork**based Speech Recognition System For Telephone  
[speech.cse.ogi.edu/pub/docs/Fanty\\_Cityname\\_ICASSP93.ps.gz](http://speech.cse.ogi.edu/pub/docs/Fanty_Cityname_ICASSP93.ps.gz)

Classification of Trajectories - Extracting Invariants with a .. - Kinder, Brauer (1992)  
(Correct) (1 citation)

of Trajectories Extracting Invariants with a **Neural Network** M. Kinder \Lambda ,W. Brauer Institut

Trajectories Extracting Invariants with a **Neural Network** M. Kinder \Lambda ,W. Brauer Institut für

to certain invariants in a task: The **neural network** itself extracts the invariants contained in a

[www.jessen.informatik.tu-muenchen.de/ftp/Automated\\_Reasoning/Reports/FKI-Reports/fki-](http://www.jessen.informatik.tu-muenchen.de/ftp/Automated_Reasoning/Reports/FKI-Reports/fki-)

Dual Cascade Networks for Blind Signal Extraction - Andrzej Cichockiy (Correct)

approach to blind separation of enhancement of **images** EUSIPCO 96, September 1996, Vol. 1, pp.

Proc. the 1997 International Conference on **Neural Networks** (ICNN'97) Houston, June, Vol. 4, pp.

Proc. the 1997 International Conference on **Neural Networks** (ICNN'97) Houston, June, Vol. 4, pp. 21352140,

[www.open.brain.riken.go.jp/PAP/icnn97.ps.gz](http://www.open.brain.riken.go.jp/PAP/icnn97.ps.gz)

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